CONTENTS

Volume 22, Number 1

Supercritical droplet vaporization and combustion studies 1
S. D. Givler and J. Abraham

Fireside slagging, fouling, and high-temperature corrosion of heat-transfer surface due to impurities in steam-raising fuels 29
R. W. Bryers

Volume 22, Number 2

Combustion of hydrocarbon fuels within porous inert media 121
J. R. Howell, M. J. Hall and J. L. Ellzey

Analogies between the transient momentum and energy equations of particles 147
E. E. Michaelides and Z.-G. Feng

Laser diagnostics for droplet characterization: application of morphology dependent resonances 163
G. Chen, M. M. Mazumder, R. K. Chang, J. C. Swindal and W. P. Acker

Ash fouling in coal-fired utility boilers. Monitoring and optimization of on-load cleaning 189
A. Valero and C. Cortés

Volume 22, Number 3

Droplet breakup phenomena in flows with velocity lag 201
E. E. Gelfand

Laser-based techniques for particle-size measurement: a review of sizing methods and their industrial applications 267
D. L. Black, M. Q. McQuay and M. P. Bonin

Volume 22, Number 4

The structure of turbulent nonpremixed flames revealed by Raman–Rayleigh–LIF measurements 307
A. R. Masri, R. W. Dibble and R. S. Barlow

Fundamental aspects of modeling turbulent particle dispersion in dilute flows 363
J. S. Shirolkar, C. F. M. Coimbra and M. Q. McQuay

Volume 22, Number 5

Management and combustion of hazardous wastes 401
S. C. Saxena and C. K. Jotshi

Coherent structures in combustion 427
C. M. Coats

Volume 22, Number 6

Ignition and combustion of boron particles 511
C. L. Yeh and K. K. Kuo

Evaluation of emissivity correlations for H_2O–CO_2–N_2/air mixtures and coupling with solution methods of the radiative transfer equation 543
N. Lallemant, A. Sayre and R. Weber